

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/31541

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01R13/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	EP 0 709 924 A (JAPAN AVIATION ELECTRONICS) 1 May 1996 (1996-05-01) column 5, line 24 - column 6, line 18; figures 8-11	1,2,4, 10-12 5-7,14, 15
Y	DE 42 14 031 A (GEBR. BERKER) 4 November 1993 (1993-11-04) column 1, line 60 - column 2, line 49; figures 10-12	1,2,4, 10-12
A	EP 0 401 723 A (D.DIETRICH) 12 December 1990 (1990-12-12) column 7, line 33 - line 44; figure 1	1,8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *A* document member of the same patent family

Date of the actual completion of the international search

25 May 2004

Date of mailing of the international search report

07/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl
Fax (+31-70) 340-3016

Authorized officer

Alexatos, G

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 03/31541

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0709924	A	01-05-1996	JP	2751012 B2	18-05-1998
			JP	8124624 A	17-05-1996
			JP	3477630 B2	10-12-2003
			JP	9035808 A	07-02-1997
			CA	2161365 A1	26-04-1996
			EP	0709924 A2	01-05-1996
			US	5609492 A	11-03-1997
DE 4214031	A	04-11-1993	DE	4214031 A1	04-11-1993
EP 0401723	A	12-12-1990	DE	3918548 A1	13-12-1990
			EP	0401723 A1	12-12-1990